

WHAT IS CLAIMED IS:

1. A oneway clutch apparatus comprising:
  - an inner race;
  - an outer race disposed to be coaxial with and
  - 5 to be rotatable relative to the inner race;
  - a plurality of cam surfaces formed on either one of the outer peripheral surface of said inner race and the inner peripheral surface of said outer race;
  - 10 a cylindrical surface formed on the other of the outer peripheral surface of said inner race and the inner peripheral surface of said outer race;
  - a plurality of torque transmitting members interposed between said cam surfaces and said
  - 15 cylindrical surface;
  - biasing means for biasing said torque transmitting members;
  - block bearings to be engaged with the concave grooves formed on said cam surfaces so as to maintain
  - 20 a space between said inner race and said outer race;
  - and
  - a retainer attached to said outer race so as to retain said torque transmitting members, said biasing means and said block bearings, said torque
  - 25 transmitting members being driven to be rotated to cope with the biasing force of said biasing means on said cam surfaces only during a one-directional

relative rotation between said inner race and said outer race so as to perform torque transmission between said inner race and said outer race,

which oneway clutch apparatus characterized in  
5 that:

said block bearing is formed in a tapered-shape with the circumferential width expanding toward said cylindrical surface side;

said retainer comprises, in a retaining portion  
10 of said block bearing, bearing retaining pieces respectively enlarged from said cam surfaces along the both end surfaces in the circumferential direction of said block bearing; and

said bearing retaining piece has a latching  
15 portion for latching and retaining said block bearing at the tip end thereof.

2. A oneway clutch apparatus according to Claim 1, wherein said block bearing has step portions in  
20 which the latching portions of said bearing retaining pieces are respectively fitted.

3. A oneway clutch apparatus according to Claim 1, wherein said block bearing has concave portions  
25 with which the latching portions of said bearing retaining pieces are engaged.

4. A oneway clutch apparatus according to any one of Claims 1 to 3, wherein said bearing retaining piece faces an end surface in the circumferential direction of said block bearing with a predetermined space therewith excluding said latching portion in a state that said block bearing is assembled.

5. A oneway clutch apparatus according to any one of Claims 1 to 3, wherein said block bearing has chamfered portions between said end surfaces in the circumferential direction and an end surface on the cam surface side.

6. A oneway clutch apparatus according to any one of Claims 1 to 3, wherein said retainer is formed of synthetic resin.